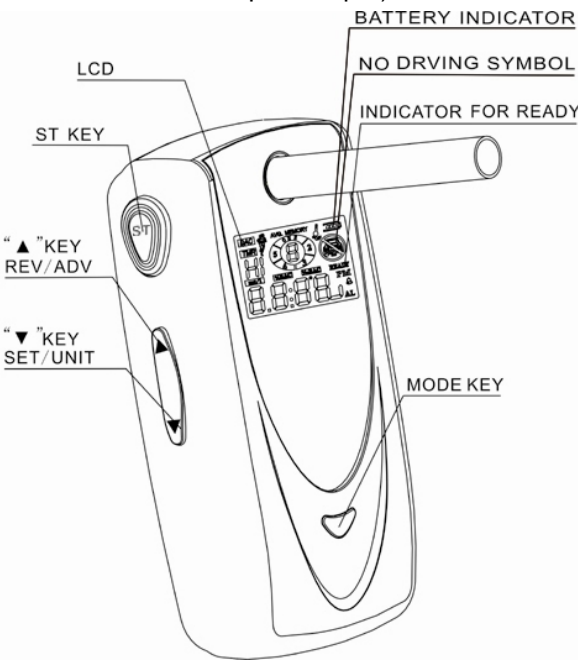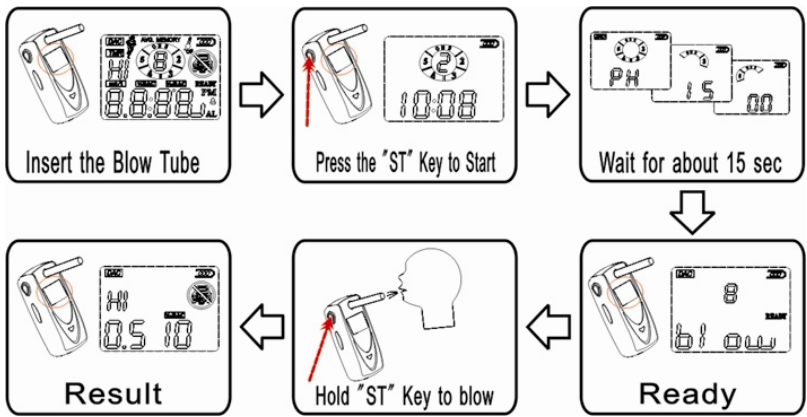# User Manual for FiT208-S Digital Alcohol Analyzer

Thanks for purchasing our FiT208-S Breath Analyzer, a hand held Digital Alcohol Computer. FiT208-S gives you a digital indication of your breath alcohol content and thus your possible concentration of intoxication. To achieve the high accuracy, user should follow the step 8 and the final reading shows on the display together with "AVG" & the "5-memoery bars" flash alternatively

Operation instructions

1. Install 3pcs AAA 1.5V **Alkaline** battery into the battery compartment (auto-cleaning will automatically activate according to the CAUTION manual & refer to page 2-note 1&2)

2. To begin, wash your mouth with water before using the unit. Abstain from smoking (for 10 minutes) or drinking (for at least 20 minutes.)

3. Press MODE key for 0.5 seconds to toggle Real Time clock mode (**RTC**) & Alcohol mode (**DAC**).

4. Make sure no alcohol residue inside the chamber (Page2, note 3).

5. Insert the provided blowing tube (or drinking straw) into the gas inlet located on top of the LCD screen.

6. Press the ST Key for 0.5seconds to activate an approximate 20 seconds sensor-warm-up process. "PH" flashes for about 4 seconds and then followed by 15-second count down. "READY" displays together with "blow" flashes with beep tone when count down to zero and ready to start.

7. Hold the ST Key, while blowing continuously through the blowing tube for approximately 6 seconds. Stop blowing when you hear a 'beep' tone and the reading shows on the display.

    i. A measurement of less than 0.15‰ BAC will show "LO"
    ii. A measurement between 0.15 & 1.5‰ BAC will show its digital reading.
    iii. A measurement above 1.5‰ BAC, "HI" & "NO DRIVING" will flash on the display.
    iv. "re" & "test" flash alternative on the display if the tester left unused for 10 minutes, repeat setp 6)
    v. "Air " & "Clr" will flash for 10 second and then "re -" & "test" will flash alternative on the display for 2 minutes if user continuously test for 7 times. After 2 minutes waiting, the machine will resume to normal. (User is requested to clean residue inside the chamber while "Air " & "Clr" flashing)

8. <u>Should repeat step 4) ~ 7) four times</u>. After 5 test samplings, press "▲" REV key once to scroll backward the last five pre-test memory readings. Press "▲" REV key once more and get the **final average** reading of your five test samplings ("AVG" & the "5-memoery bars" flash alternatively)

9. If the difference between two successive reading **>**0.1‰BAC, user **should** test again.

Alert Signals

FiT208-S is designed to alert user as following:

Low Level	For measurement below 0.15‰ BAC, "LO" will be shown on display with GREEN backlight.
Safety Level	For measurements between Low Level (> 0.15‰ BAC) and Pre-alert Level (Warning Level), the alcohol concentration level shows on the display with GREEN backlight.
Pre-alert Level	For measurements within 0.2‰ BAC below the alert point. The analyzer beeps together with "NO DRIVING" & "HI" flashes alternatively for 3 times. GREEN & ORANGE backlight exchanges alternatively as well. The LCD will keep the red backlight. **DON'T DRIVE: You are very close to the alert level or you have reached the alert level if take tolerance of the unit into account**
Alert Level	For measurements equal to or above the alert concentration level, the analyzer beeps together with "NO DRIVING" & "HI" flashes alternatively for 15 seconds. ORANGE & RED backlight exchanges alternatively. The alcohol concentration level displays and "NO DRIVING" will then remain on the LCD with red color backlight. If reading greater than 1.5‰ BAC, "NO DRIVING" & "HI" will remain on the LCD. Press [MODE] key can stop the alert sound. **YOU ARE PROHIBITED TO DRIVE since you already exceed the alert level**.

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Enhanced feature instructions

- **Unit conversion and memory recall:**
  - i. Hold MODE Key for 0.5 seconds to toggle Real Time clock (**RTC**) / Alcohol mode (**DAC**).
  - ii. Press "▼" UNIT key once to convert the alcohol unit in **DAC** mode, between ‰BAC; %BAC, mg/l
  - iii. Press "▲" REV key once to scroll forward the 5 memory readings and then the average reading
  - iv. Hold "▲" REV key for 2 seconds to clear the memory readings in alcohol mode.

- **Real time Clock setting:**
  - i. When in Real time Clock mode, hold "▼" SET key for 2 second to enter into time setting in **RTC** mode.
  - i. Press "▲" ADV key once to advance the selected digit in **RTC** setting mode
  - ii. Press "▼" SET key once to decrease the selected digit in real time setting mode.
  - iii. Press ST key once to shift the select digit in real time setting mode.

Note:

1) To ensure high precision readings, user should perform the auto-cleaning if unused for a long period. (especially for the first time of using). User can start the auto-cleaning process by holding MODE & "▲" keys together for 2 seconds or by removing the batteries and power up again. Put a few drops of alcohol solvent (<2%) inside the provided cleaning cap accessory. Place the cap onto the gas outlet when you see the animation of "CAP **u**" → "CAP **n**" for 10 seconds. Then take off the cap when "Auto" & "Clr" flashes and leave the FiT208-S perform the 3 minutes auto cleaning. The analyzer will then return to normal Alcohol mode automatically when the cleaning process finishes. Make sure no alcohol residues left by blowing fresh air into the gas inlet before formal testing.

2) Please notice that pressing the MODE key at any time can easily terminate the auto-cleaning process.

3) To achieve an accurate reading, user should ensure there is no alcohol residue inside the chamber before starting a new alcohol test. Users can pre-check the tester until the 'Lo' indication is shown on the display. This may be achieved by pressing ST key once. Holding the ST key and blow fresh air into gas inlet for about few seconds. Alternatively, shaking the unit forwards and backwards several times will allow any alcohol residue to leave before starting a new alcohol test.

4) After any 5 consecutive tests, allow the device to rest for 2 minutes.

5) An "Err" flashes on the display for 5 seconds for the following improper operations:-
   - i. When user does not hold the BLOW key for at least 6 seconds during blowing until a beep sound is heard.
   - ii. When user fails to start the test within 10 seconds after "READY" turns on and "blow" flashes.

   User can press MODE Key once to stop the alarm sound of Err.

Storage and handling:

6) When the product is left unused, please store in a dry environment.
7) When low battery inductor flashes, the reading is not valid, please replace the batteries immediately.
8) This is an instrument for breath alcohol concentration, user should avoid the tester from high impacted or drop. Please ask for the recalibration from your nearby service centre if such kind of abnormal impact occurred.
9) Recalibration: According to the international standard (e.g. DIN31051), all measurement instrument should be recalibrated every 6 months.

Product Specifications:

1.	Range:	0.15 ~ 1.5‰ BAC
2.	Power Input:	3pcs AAA 1.5V **Alkaline** batteries
3.	Display:	Graphic & Digital display with tri-color backlighting
4.	Real time clock power save mode:	2 minutes after any key in
5.	Breath sampling:	About 6 seconds continuous breath sample
6.	Recycle time:	~20 seconds
7.	Dimensions:	88 X 47 X 24 mm approx.
8.	Weight:	50 (without batteries)
9.	Alert level calibrated:	☐0. 2‰ ☐0. 3‰ ☐0. 5‰ ☐0. 8‰ BAC
10.	Agency Approval:	CE
11.	Accessories:	3 pcs blowing tubes; 1 pc Auto-cleaning cap

The FIT 218 Digital Alcohol Analyzer should be used as a general guide to the level of alcohol in your body.

Many factors (e.g. environment gas residue, smoke & various smell in human mouth, etc…) may affect the BAC level, so the Readings are For Reference Only.
Neither the reseller nor manufacturer accept any liability arising from the use of this unit

DO NOT drink before you drive!

Specification subject to change without notice

Made in China.